



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,151	03/06/2002	Frederick G. Kaestner JR.	101524.000001	9215
23828	7590	03/25/2004		
JAMES C. EAVES JR. GREENEBAUM DOLL & MCDONALD PLLC 3500 NATIONAL CITY TOWER 101 SOUTH FIFTH STREET LOUISVILLE, KY 40202			EXAMINER WANG, JIN CHENG	
			ART UNIT	PAPER NUMBER
			2672	

DATE MAILED: 03/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/092,151

Applicant(s)

KAESTNER, FREDERICK G.

Examiner

Jin-Cheng Wang

Art Unit

2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2 and 3</u> . | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Drawings***

The drawings in this application are objected to by the Draftsperson as informal. Any drawing corrections requested, but not made in the prior application should be repeated in this application if such changes are still desired. If the drawings were changed and approved during the prosecution of the prior application, a petition may be filed under 37 CFR 1.182 requesting the transfer of such drawings, provided the parent application has been abandoned. However, a copy of the drawings as originally filed must be included in the 37 CFR 1.60 application papers to indicate the original content.

### ***Specification***

1. The specification is objected to because of the following informalities: Claim 1 recites “coupled to a one of the sensor inputs...” which should be “coupled to one of the sensor inputs...” Appropriate correction is required.
2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Objections***

3. Claim 1 is objected to because of the following informalities: Claim 1 recites “coupled to a one of the sensor inputs...” which should be “coupled to one of the sensor inputs...” Appropriate correction is required.

*Claim Rejections - 35 USC § 102*

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Lemelson U.S. Patent No. 5,181,521 (hereinafter Lemelson).

6. Claim 1:

Lemelson teaches an electronic device for acquiring, storing, and displaying data comprising:

A processor (microprocessor 31 of Figure 2) having a read only memory (ROM 40 of Figure 2) for storing processor instructions, a random access memory (RAM 38 of Figure 2) for storing data (column 6, lines 30-40), and having a plurality of data output channels (See Figure 2 wherein the microprocessor 31 have a plurality of data output channels such as data to the I/O interface 46 or data output to the printer 50, display 12. See also column 12);

A plurality of sensor inputs for accepting data signals (the thermometer sensor assembly 23 of Figure 1, an electro-optical sensing assembly 20 of Figure 1; a temperature sensor 25 of Figure 2, a blood pressure or pulse sensor 36 of Figure 2. See column 4, lines 50-60; column 5);

A plurality of push buttons electrically coupled to the processor for configuring a plurality of user-configurable parameters (e.g., manual push-button or membrane switches 17 and 18 respectively connect sensors 25 and 36 to either a common or respective analog-to-digital

converters 43 and 44, which transmit digital indications of body temperature and pulse to respective inputs to the microprocessor 31, column 6, lines 25-30; column 6, lines 58-67; column 7, lines 1-24);

A visual display having an input coupled to a data output channel from the processor (display 12 of Figure 2 has an input coupled to a data output channel from the microprocessor 31 of Figure 2; or a display connected to the I/O Interface 46 wherein the I/O Interface 46 is viewed as a data output channel from the microprocessor 31) for displaying data in a graphical format (operating a display such as a video display terminal to generate graphical displays or graphs; column 4, lines 40-46; column 8, lines 15-28) and operator interface menus (such as the push buttons for performing a plurality of functions wherein the selected items such as temperature or pressure or a series of temperatures are displayed when selected; column 6 and 10-12);

A speaker electrically connected to the processor alarm output for producing an audible alarm (e.g., a pulse rate *alarm* 37 driven by an attendant driver 37D for energizing a lamp and/or *beeper or tone generator* when the pulse rate of a person to whom the transducer 36 coupled, exceed a present rate as programmed in the memory of the pulse-rate computer 39 by the selective operation of the key switches or keyboard 39; column 7, line 40-64; column 9, lines 20-30);

A real-time clock for timing intervals between data samples and time-stamping the samples (e.g., The microprocessor 31 also signals an electronic clock 59 which is always driven by a battery 52 to cause code signals generated thereby which are indicative of date and time of day to be transmitted through the microprocessor to the unit or units recording the sensed data for recording therewith; column 6, lines 35-45. The current measurement(s) data together with

Art Unit: 2672

date and time data from *the clock or signal generator 59* are recorded as digital code or record signals on one track of the magnetic tape of the recorder; column 10, lines 1-10; Additional features of system 30 include an oscillator clock 45 connected to microprocessor 31 and utilized thereby to provide accurate timing signals for controlling the operation of such devices a memories 37, 38 speech signal generator 55, pulse rate computer 39 and any of the other devices requiring proper timing signals, when activated; column 7, lines 65-67; column 8, lines 1-5);

A *serial* port for transmitting and receiving data to and from a remote device (e.g., I/O Interface 46 for providing two-way communication with the remote computer 60; Figure 2. The data is *serially* or selectively reproduced and *passed* to the remote computer 60; column 8, lines 6-28; transmission from the interface 46 to a remote recorder or computer via *wire or short wave means*; column 10, lines 40-67. See also the plurality of receptacles 11B, 11C and 11D for respectively connecting a source of charging current to a rechargeable battery in the housing, a cable conductor for a physiological sensor and a cable extending to an external memory or *communication network* such as associated with a remote computer, e.g., a remote pulse rate computer; column 4, lines 61-67);

A plurality of data sensors (a temperature sensor 25 and a blood pressure or pulse sensor 36) responsive to a measurable variable (physiological variable such as a temperature or pulse; column 6, lines 15-57), said sensors each having an output representative of said physical variable coupled to one of the sensor inputs of said control unit (e.g., column 6).

7. Claim 2:

The Claim 2 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of user-configurable parameters include data sampling intervals, display ranges, high and low alarm values, display intervals, and sensor types.

However Lemelson further discloses the claim limitation of user-configurable parameters include data sampling intervals (e.g., a select temperature taken at a *select time* of a select living being and code signals defining all temperature readings taken and recorded or select temperatures at *select times or dates or temperatures recorded over a select period of time*; column 5, lines 45-67; column 6, lines 1-8; column 10, lines 40-67), display ranges (e.g., such as the data values associated with a selected variable having different display ranges over a selected period of time; column 5, lines 45-67; column 6, lines 1-8; column 7, lines 1-24), high and low alarm values (temperature alarm 35 may be manually set or set by signals generated when select keys of keyboard 19 are operated to sound an *alarm* or energize a lamp when the temperature of a person as it is taken exceeds and/or falls below *select limits*; column 7, lines 40-50), display intervals (A select time interval or select time and date; column 7, lines 5-15), and sensor types (e.g., column 6, lines 25-30).

Claim 3:

The Claim 3 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of at least one alarm output for triggering a remote alarm. However, Lemelson further discloses the claim limitation of at least one alarm output for triggering a remote alarm (e.g., the plurality of receptacles 11B, 11C and 11D for respectively connecting a source of charging current to a rechargeable battery in the housing, a cable conductor for a

Art Unit: 2672

physiological sensor and a cable extending to an external memory or *communication network* such as associated with a remote computer such as a remote pulse rate computer for generating pulse rate alarms at the remote computer; column 4, lines 61-67; or the alarm unit such as temperature alarm 35 or the pulse-rate computer 39 can be remotely attached to the base unit to generate an alarm; column 7).

## Claim 4:

The Claim 4 encompasses the same scope of invention as that of the Claim 3 except additional claim limitation of at least one user-configured alarm value. However, Lemelson further discloses the claim limitation of at least one user-configured alarm value (e.g., a temperature alarm 35 may be manually set or set by signals generated when select keys of keyboard 19 are operated to sound an *alarm* or *energize* a lamp when the temperature of a person as it is taken exceeds and/or falls below *select limits*; column 7, lines 40-50).

## Claim 5:

The Claim 5 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of a power management system whereupon operating power is supplied to said plurality of sensors only at predetermined data sampling intervals. However, Lemelson further discloses the claim limitation of a power management system whereupon operating power is supplied to said plurality of sensors only at predetermined data sampling intervals (A temperature transducer 25 being energized after switches 17 and 51 are activated; column 8, lines 55-60; column 4, lines 61-67).

## Claim 6:



The Claim 6 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of the visual display being capable of displaying historical data supplied by said plurality of data sensors responsive to a push button being selected. However, Lemelson further discloses the claim limitation of the visual display being capable of displaying historical data supplied by said plurality of data sensors responsive to a push button being selected (e.g., column 11).

Claim 7:

The Claim 7 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of an output port for transmitting and receiving data to and from a remote device. However, Lemelson further discloses the claim limitation of the visual display being capable of an output port for transmitting and receiving data to and from a remote device (e.g., I/O Interface 46 for providing two-way communication with the remote computer 60; Figure 2. The data is *serially* or selectively reproduced and *passed* to the remote computer 60; column 8, lines 6-28; transmission from the interface 46 to a remote recorder or computer via wire or short wave means; column 10, lines 40-67. See also the plurality of receptacles 11B, 11C and 11D for respectively connecting a source of charging current to a rechargeable battery in the housing, a cable conductor for a physiological sensor and a cable extending to an external memory or communication network such as associated with a remote computer; column 4, lines 61-67).

Claim 8:

The Claim 8 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of the display graphically representing a plurality of data values in each display column.

However, Lemelson further discloses the claim limitation of the display graphically representing a plurality of data values in each display column (e.g., operating a display such as a video display terminal to generate graphical displays or graphs when computer 60 is detachably connected to the I/O Interface 46; column 4, lines 40-46; column 8, lines 15-28; column 10-11).

Claim 9:

The Claim 9 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of the display graphically representing data supplied by any one of said plurality of data sensors responsive to a push button selection.

However, Lemelson further discloses the claim limitation of the display graphically representing data supplied by any one of said plurality of data sensors responsive to a push button selection (e.g., operating a display such as a video display terminal to generate graphical displays or graphs in which the computer 60 is detachably connected to the I/O Interface 46 wherein the graphs are displayed by selectively operating manual switch buttons; column 4, lines 40-46; column 8, lines 15-28; column 10-11).

Claim 10:

The Claim 10 encompasses the same scope of invention as that of the Claim 1 except additional claim limitation of graphically representing a statistical value of a plurality of data samples taken from said plurality of sensors in each display interval.

However, Lemelson further discloses the claim limitation of graphically representing a statistical value of a plurality of data samples taken from said plurality of sensors in each display interval (e.g., operating a display such as a video display terminal to generate graphical displays or graphs of *selected historical temperature values for a select time interval* in which the computer 60 is detachably connected to the I/O Interface 46 wherein the graphs are displayed by selectively operating manual switch buttons; column 4, lines 40-46; column 8, lines 15-28; column 10-11).

8. Claims 11-20:

Each of the Claims 11-20 respectively corresponds to that of the Claims 1-10 and encompasses the same scope of invention as that of the Claims 1-10. The Claims 11-20 are subject to the same rationale of rejection set forth in above.

***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jin-Cheng Wang whose telephone number is (703) 605-1213. The examiner can normally be reached on 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (703) 305-4713. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-6606 for regular communications and (703) 308-6606 for After Final communications.

Art Unit: 2672

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 395-3900.

jcw  
March 15, 2004



**MICHAEL RAZAVI**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600